SIEMENS

ARCADIS

SP

Software

System

Software Clone Installation Version VC10A

ARCADIS Varic
ARCADIS Orbic
ARCADIS Avantic

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General information

Software Clone installation

⚠CAUTION

The Clone SW-DVD is available as a spare part. Do not leave at the customer site.

Only install Clone software if the recovery DVD is defective or lost.

➪ **Due to licensing, do not leave a Clone SW DVD at the customer site.**

Passwords

Required passwords are not included in this document. You will find them in the CS Knowledge Base on the intranet or you can obtain them from the relevant USC or RSC.

Service, shutdown, hibernation

⚠CAUTION

Switching the system off via hibernation after service or before handover to the customer is not sufficient.

Various error messages can appear after the next system boot and configuration changes are not saved.

➪ **To ensure that the configuration changes are saved, a proper shutdown must be performed. Shut down the system via the upper monitor menu bar <Options>-<End Software Session>-<Shut Down> and then press the "off" key on the monitor trolley.**

Handover to the customer

NOTE

Before the system is handed over to the customer, the system must be shut down via the menu bar <Options>-<End Software Session>-<Shut Down>.

Switching the system off via hibernation (on/off button on the monitor trolley) is not sufficient.

Safety information

When performing the work steps and checks, the general safety information for medical products must be observed.

Installation prerequisites

System condition

- The recovery DVD is defective or lost.
- ARCADIS systems are delivered from factory with software version VC10A.
  - ➪ Systems with software version VB13C cannot be upgraded.

Required Software CD‘s / DVD‘s

- Image System Clone Software VC10A DVD must be ordered as a spare part.
  - ➪ Do not leave the clone software DVD at the customer site.
- Backup CD
- Quick Reference Guide CD for Varic / Orbic / Avantic (if available)

Installation time

- The complete software installation procedure takes about 2 hours. The time needed to save patient images is not included in the calculation.

Software Version

- The system must already be at VC10A software level, or if the PC is defective, an actual backup of the VC10A settings must be available.

Monitors

- Make sure that both monitors are connected and switched on.

Local Printer (if applicable)

- USB Printer (Sony): Make sure that the local printer is switched off and the USB connection is **not connected** to the imaging system PC.

USB

- Make sure that no USB memory stick or USB hard drive is connected to the imaging system PC.

NOTE	**Be aware that the dongle is not a memory stick.**

Network

- The system must be physically disconnected from the network during software installation.

Functional Test

- Check the functional status of the system.
  ➪ No error message should appear on the system.

Patient Images

Patient images that are not saved will be lost during a software installation.

- If required, save the patient images.
  - Send the patient images to the archive
  - or burn them to CD/DVD
  - or save them to USB hard drive

Password list

- The knowledge base password list must be available.

HIPAA Administrator Logon (only if HIPAA is configured)

NOTE **If a login window appears after the system startup, then HIPAA is configured.**

1. If you are uncertain of the administrator password, switch the system on and login into the service application.
2. Click <Configuration>-<Next>-<Users>.
3. Enter the password (e. g. default password, see SP password list) in the “Password” and “Confirm” fields below “Account for Administrator”

   ➪ With HIPPA configured, the administrator password is necessary for the first HIPAA login after restoring “SW_Settings 02”.

Entering and saving data

Service key

- Record the syngo service key .....
  - ➪ It can be found in the system binder or can be obtained from the responsible USC.

BIOS password

- Record the BIOS password.....
  - ➪ This is listed in the knowledge base password list.

Computer name

- Record the computer name.....
  - ➪ It can be found in the service software under Configuration/Local host/TCP IP LAN/Computer name.

Administrator logon

- Record the administrator name .....
  - ➪ This is listed in the knowledge base password list.
- Record the administrator password .....
  - ➪ This is listed in the knowledge base password list.

HIPAA logon (only if HIPAA is configured)

- Record the HIPAA user name.....
  - ➪ A user name can be obtained from the HIPAA administrator.
- Record the HIPAA user password.....
  - ➪ A user password can be obtained from the HIPAA administrator.

Backup procedure and SW-installation procedure

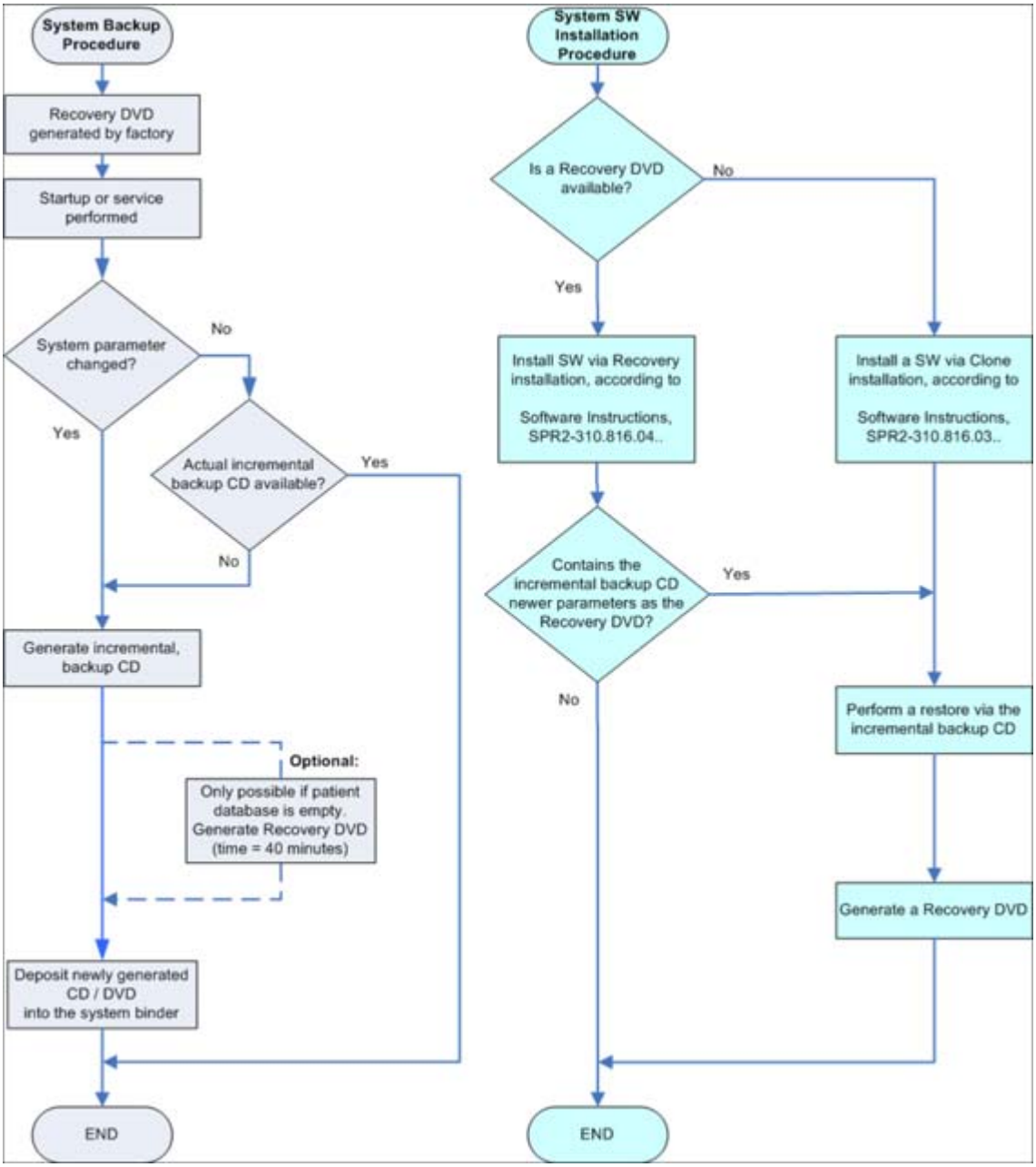
System Backup Procedure
Recovery DVD generated by factory
Startup or service performed
System parameter changed?
No
Yes
Actual incremental backup CD available?
Yes
No
Generate incremental, backup CD
Optional:
Only possible if patient database is empty. Generate Recovery DVD (time = 40 minutes)
Deposit newly generated CD / DVD into the system binder
END
System SW Installation Procedure
Is a Recovery DVD available?
No
Yes
Install SW via Recovery installation, according to Software Instructions, SPR2-310.816.04..
Install a SW via Clone installation, according to Software Instructions, SPR2-310.816.03..
Contains the incremental backup CD newer parameters as the Recovery DVD?
Yes
No
Perform a restore via the incremental backup CD
Generate a Recovery DVD
END

Fig. 1: Overview Backup procedure and SW installation

Backup

NOTE **All network settings, including the static route, are a part of "SW-Settings02".**

NOTE **The monitor trolley and the basic unit must be connected. (Plug X10 is connected to socket X10.)**

1. Open the local service.
2. Insert a blank CD-R into the DVD drive.
3. Click <Backup & Restore>
4. Select "Command" and "Backup".
5. As the backup drive, select "(R) CD-R" in the "Drives" list field.
6. Perform a backup of the following packages:
   - ➪ SW-Settings02
   - ➪ ASPIASettings
   - ➪ ExamSet
   - ➪ Security-Settings (Option HIPAA)
   - ➪ MainSystem
   - ➪ 3D-Settings (Option Orbic 3D)
7. Remove the CD-R from the DVD drive and write the system serial number, software version, date and "Backup" on the CD-R.
8. Click <Home>.

Downloading the main system software

NOTE

A download of the main system software is required only if a newer version is released or if the main system D1 board has been replaced.

1. In the Service menu, click “Main System” and <Next>.
2. Under the <Download> menu, click <C-arm>.
3. Insert the main system software CD into the DVD drive.
   ➪ Wait until the CD is recognized by the DVD drive.
4. Under drive, select “R” (DVD drive).
5. Under “Directories & files” select “:
   - for ARCADIS Varic/Orbic --> “SMC_Plus_V...”
   - for ARCADIS Avantic --> “ARC C08 V...”
6. Click <Compare>.
   ➪ The file version is displayed under <New version>, and the recommended action (e. g. update necessary) is displayed under <Status/Action>.
7. Click <Download>.
   ➪ A progress bar indicates the progress of the download.
8. When the download is completed, click <Finish> and remove the software CD from the DVD drive.

Software installation VC10A

NOTE	**ARCADIS systems with software version VB13C cannot be upgraded to software version VC10A!**

Installation prerequisites

- Ensure that the USB local printer (SONY) is disconnected from the imaging system PC.
- Ensure that the any network connection is disconnected from the monitor trolley.
- Make sure that no USB memory stick or USB hard drive is connected to the imaging system PC.
- Ensure that both monitors are connected and switched on.
- Ensure that a backup of the current system configuration is on hand.
- Ensure that all patients are archived.

Installation preparations

1. Disconnect the main system from the monitor trolley.
2. Switch the system on if it is switched off.
3. Shut down the system via the menu bar <Options>-<End Software Session>-<Shut-down> .
4. Immediately after this, switch off the system by pressing the power off button on the monitor trolley.
   ➪ Wait until the shutdown is finished.

Image file installation

1. Switch on the system using the monitor trolley power on button.
2. As soon as text is displayed on the left monitor, press the **"F2"** key on the keyboard.
   ➪ The BIOS login window is displayed.

Fig. 2: Bios_PW

3. Enter the BIOS password and confirm it by pressing the "**Enter**" key.
4. Insert the "image system VC10A" software DVD into the DVD drive.
5. Press the "**F9**" key on the keyboard.
   ➪ "Load default configuration now?" is displayed.
6. Confirm the "Yes" button by pressing the "**Enter**" key .

7. Select <Advanced> with the cursor keys and press the “**Enter**” key.
8. Select <USB BIOS Supported Devices> with the cursor keys and press the “**Enter**” key.
9. Change, with cursor keys, the setting from “Auto” to “Keyboard/Mouse” and press the “**Enter**” key.
   ➪ “Keyboard/Mouse” is displayed on the screen.
10. Press the “**ESC**” key to leave the menu.
11. Press the “**ESC**” key to select “Exit”.
12. Confirm the text line “Save Changes & Exit” by pressing the “**Enter**” key.
    ➪ The message appears: “Save configuration changes and exit now?”
13. Confirm the <Yes> button by pressing the “**Enter**” key.
    ➪ The system boots and installs the BIOS settings. This takes a while.
    ➪ The message “Varic, Orbic, Avantic (V, O, A)” is displayed.
14. Select the system by pressing the correct letter on the keyboard:
    “**V**” for ARCADIS Varic software installation,
    “**O**” for ARCADIS Orbic software installation,
    “**A**” for ARCADIS Avantic software installation,
    ➪ When the letter key on the keyboard is pressed, the image installation starts.
    ➪ After a few seconds, a license agreement window is displayed.

NOTE	**If the message “A:\GHOSTERR.TXT” appears then the letter for the system was not correct and the installation must started from the beginning.**

15. Confirm the <OK> button by pressing the “**Enter**” key
    ➪ The “Ghost” installation takes about 25 minutes.

NOTE	**The Ghost progress bar and time indication is not correct. After a progress bar display of about 40% the installation is completed.**

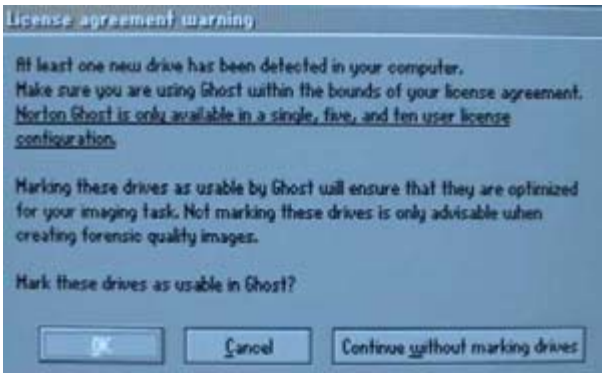
License agreement warning
At least one new drive has been detected in your computer.
Make sure you are using Ghost within the bounds of your license agreement.
Norton Ghost is only available in a single, five, and ten user license configuration.
Marking these drives as usable by Ghost will ensure that they are optimized for your imaging task. Not marking these drives is only advisable when creating forensic quality images.
Mark these drives as usable in Ghost?
OK
Cancel
Continue without marking drives

Fig. 3: Ghost_License

➪ The image installation starts.

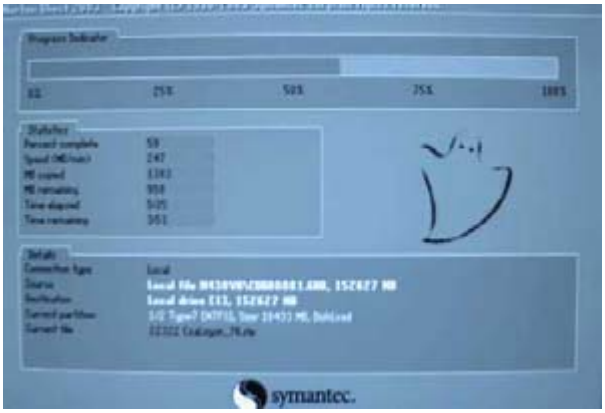

Fig. 4: ghost_progress

16. After successful installation of the image files, the system reboots automatically.

➪ After the reboot, the Windows XP Setup window is displayed on the left-hand monitor.

Installation of Windows XP and syngo Application

Windows XP Professional Setup
Computer Name and Administrator Password
You must provide a name and an Administrator password for your computer.
Setup has suggested a name for your computer. If your computer is on a network, your network administrator can tell you what name to use.
Computer name:
Setup creates a user account called Administrator. You use this account when you need full access to your computer.
Type an Administrator password.
Administrator password:
Confirm password:
< Back
Next >

Fig. 5: compute_name

NOTE

DO NOT enter any password into the "Administrator password" fields!

1. When a window appears with "Computer name" and "Administrator" enter the previously noted computer name in the "Computer name" field.
2. In the window click the <Next> button.
   - ➪ Windows XP Professional installation takes about 10 minutes.
   - ➪ After Windows XP Professional is successfully installed, the system reboots automatically.
   - ➪ Some installation scripts will be started automatically.

NOTE

If the window “Welcome to found new Hardware Wizard” appears, select “No, not this time”--> <Next>, --> “Install the software automatically (Recommended)” and <Next>-<Finish>. The message “The system cannot find the file specified” disappears after a while, and the installation continues.

➪ After a second reboot, the login dialog window is displayed.

Fig. 6: meduser

Fig. 7: ARCADIS Keyboard, US layout

NOTE

Regardless of the keyboard, the keyboard layout is English. The @ sign can be selected by pressing the <Shift> + <2> keys simultaneously.

3. In the login dialog, change the “User name” to “meduser” and enter the “Password”
   ➪ User name: **meduser**
   ➪ Password: **@med@User...** (“**...**” = the last 3 digits of the previously noted computer name)

4. Click <OK>.
   ➪ Autoconfiguration starts.
   ➪ Wait for the Explorer window “Please enter license” (see next section).

Local service configuration

Start Up Check - Microsoft Internet Explorer provided by Siemens AG Medical Solutions
File Edit View Favorites Tools Help
Back Search Favorites Media
Address C:\ASPIA\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
My Computer

NOTE **If no backup is on hand, configure the system according to the configuration guide.**

1. Remove the installation DVD from the drive.
2. Select “Click here to start the Local Service Configuration”.
3. Enter the service key in the service window that appears (under password).
4. Select <Set as default>.
5. Confirm by clicking <OK>.
   ➪ The <Home> menu window of the local service is displayed.

Restore

1. Insert the backup CD into the DVD drive.
2. In the Service menu, click <Backup & Restore>.
3. Under “Command” select “Restore” and select “(-R-) CD-R” under “Drives”.

SW-Settings 02

1. Under “Archive”, select the correct (newest) backup file of “SW-Settings 02”
2. Highlight all the files in “Groups” (press the “Shift” key and select the first and last entry of groups).
3. Click <Go>.

ASPIA Settings

1. Under “Archive”, select the correct backup file of the “ASPIA Settings”
2. Highlight all the files in "Groups”.
3. Click <Go>.

3D Settings (only for ARCADIS Orbic)

1. Option for Orbic: Under “Archive” select the correct backup file of 3D Reconstruction settings.
2. Click <Go>.

Exam Set

1. Under “Archive” select the correct backup file of “Exam Sets”.
2. Highlight “Filter_Files” and “User Defined_ExamSets”.

NOTE	**DO NOT highlight (select and restore) the “Default_Exam_Set”!**

3. Click <Go>
   ➪ The “Exam sets” window is displayed.
4. Select all exam sets in the window ”ExamSets in backup package” and click <Import> to load the exam sets into the window “Installed ExamSets”.
5. Click <Go>

Security-Settings (only if HIPAA is configured)

NOTE	**If HIPAA is configured, an HIPAA password is required after the restore of the security settings, on every system restart. For login, the “HIPAA” user name and password is needed.**

1. Under “Archive”, select the correct backup file of “Security Settings”.
2. Click <Go>.
   - ➪ Now the user names and passwords stored in the security settings are valid again.
   - ➪ Next time, log in with the user name/password obtained from the HIPAA administrator.

Main system

NOTE	**The main system parameters are obtained at the main system D1 board. A restore is necessary only if D1 is replaced.**

Database creation and activating the restored values

1. Remove the backup CD from the DVD drive.
2. Restart the system via the windows menu bar, click <Start>-<Shut Down>, select <Restart> an click <OK>.
3. The patient database creation starts and take about 15 minutes.
   - ➪ The syngo counter screen appears.
   - ➪ When this is completed, a window appears with the following text: **"Warning: database creation in progress, this will last a long time. Wait until the patient registration dialog is open! Close the window then! Press any key to continue...”**
   - ➪ Wait until the patient registration dialog or the patient browser is displayed.
4. Close the patient registration dialog or the patient browser.
5. Click the window “Warning: Database...” and press the “Enter” key.
   - ➪ The window “Warning: Database...” disappears.

Final steps of software installation

1. Connect the main system.
2. Continue with “Image text configuration”.

Image text configuration

1. In the syngo menu bar, select <Options>-<Configuration>.
2. Double-click “Image text editor”.
3. Under “View Name” (Basisformat), select “XA Image”.
   - Deselect software version
     ➪ Software version = ☐
4. Click <Apply>.
5. Under “View name”, select “ARCADISAcqView”.
6. Click “Customized text” (“Ausgewählte Texte”).
   ➪ “Image Date” = ☐
   ➪ “Image Time” = ☐
   ➪ “Image Number” = ☐
7. Click <Apply>.
8. Click <OK> and close the Configuration panel.

Country-specific keyboard layout and user interface

1. In the "Configuration" panel double-click “Regional and Language...”.
2. Select “Regional Options”.
3. Under “Standards and formats”, select the appropriate language from the drop-down menu:
   - English (United States)
   - German (Germany)
   - French (France)
   - Spanish (Spain)
4. Under “Location”, select your corresponding location.
5. Click <Apply>

NOTE **“English (United States)” is the default setting. As a result “Apply” is not available.**

6. Select the “Languages” tab card and click <Details...>.
7. Under “Installed services” click “Add...”
   ➪ The window “Add input language” appears.
8. Under “Installed services”, the following “input language” can be selected:
   - English (United States)
   - German (Germany)
9. Under “Keyboard layout / IME”, select the appropriate keyboard language from the drop-down menu:
   - US
   - United Kingdom
   - German
   - Swedish
   - Portuguese
   - Italian
   - French
   - Spanish

NOTE **If a keyboard language (e. g. “US”) is displayed under “Installed services”, it disappears from the “Keyboard layout/IME” drop-down menu.**

NOTE **The correct keyboard language can also be found in the delivery note from the factory.**

10. Click <OK> to close the “Add input language” window.
11. Click <Apply> and <OK> to close the window “Text Services and Input Languages”.

12. Click <Apply> and <OK> to close the window “Regional and Language Options”.

    ➪ If the language have been changed, the following message appears:
    The following is displayed in the case that values have been changed:
    “The regional settings have been changed.
    Therefore a restart of the application is necessary.
    Do you want to restart the application now?”

    ➪ In case of language change click on <OK>. This will apply the settings and the system restarts.

    ➪ Otherwise shut down the system via <Options>-<End Software Session>-<Shut-down>.

Quick guide for system operation (only if available)

1. In the Service menu, click <Configuration>.
2. Under “Help / Documentation”, click “Help Update”
3. Place the “Quick Reference Guide” CD-R into the DVD drive.
4. Select the path and file(s) under “Directories and file”.
5. Click <Save> and remove the CD-R from the DVD drive.

Test images

- Test images are automatically installed during software installation.
  - ➪ The “Service Patient” and corresponding images are shown only when the “Service menu” is opened and the login has been performed.

Patient Images

- If necessary, restore the patient images.

General information

NOTE

Perform the steps in this chapter only if the system is equipped with a local printer.

NOTE

Local printer, PostScript printer

These printer types are not approved for diagnostic purposes.

Notify the responsible personnel about this limitation.

Sony UPD 970 and UPD 990 local printer installation

Prerequisites

NOTE	**Do not connect the USB printer until you are instructed to in the course of the software installation process.**

1. For the necessary test exposures, make sure the printer has paper or film.
2. Unplug the printer's USB connection to the PC.
3. Switch on the system and wait until it has booted.

Printer setup in local service

1. In the "Service" menu, click <Configuration>.
2. In the “List of system options” window the “Paper Printer” check box ☑ must be checked.
3. Click <Next>.

Paper printer

1. Under the “External devices” menu, click (or <Next> to go to) “Paper Printer”.
2. In “Available paper printer media formats”, mark “A4” and “8x10”. All other formats must be deselected.
3. Click <Save>.

Printer settings

1. Under the “External Devices” menu, click (or <Next> to go to) “Printer settings”.
   ➪ Make sure that the default value “black” is selected and click <Finish>.

PS LUT files

1. Under the “External devices”, menu click (or <Next> to go to) “PS LUT files”.
2. Ensure that the “Use LUT for Postscript Printers” check box is unchecked.
   ➪ The “PS LUT directory” field is not relevant.
3. Ensure that the “Use floating Zoom factors” check box is checked.
4. Click <Save> and <Finish>.

NOTE	**Do not shut down the system.**

Log off as “meduser” and log on as “administrator”.

1. In the "Service" menu, click <Home> -<Utilities>.
   ➪ If a window appears “A system reboot is necessary...” click <Cancel>.
2. Under “Source”, select “System”.
3. Select “Shut down Application” and click <Go>.
   ➪ The message box appears: “Application shutdown was selected. Are you sure?”
4. Click <OK>.
   ➪ The system shuts down to the Windows XP level.
   ➪ The message “Shutdown of Application finished...” appears.
5. In the Windows menu bar, click <Start>-<Shut Down...>.
6. Select “Log off meduser”.
7. Click <OK>, then **immediately** (within 1 sec) press and hold the shift key on the keyboard.
   ➪ A “Log on” window appears.
   - Under “User name”, enter “administrator”.
   - Under “Password”, enter the administrator password (see SP password list).

NOTE

If the administrator password is not valid, proceed as follows: In the “Service” menu click <Configuration> - <Next> then under “Local Host” click <Users>. In the “Account for Administrator” fields, enter the password from the SP password list, confirm it, and click <Save>.

8. Click <OK>.
   ➪ The system is now at the Windows XP level with administrator rights.

Sony UPD 970/990 printer driver installation and settings

Printer driver installation

1. In the Windows task bar, click <Start> with the right-hand mouse button, then select and click <Explorer>.
   ➪ Windows Explorer opens.
2. Select and open the path “C:\ASPIA\driver\UPD9X0”.
   ➪ The contents of the subdirectory “C:\ASPIA\driver\UPD9X0” are displayed.
3. Double-click the file “printer_Sony_UP-970AD_990AD.reg” and confirm the subsequent message windows by clicking <Yes> and <OK>.
4. Connect the USB cable to the printer and switch the printer on.
   ➪ The hardware installation procedure starts automatically.
   ➪ Follow the procedure:

- Select “No, not this time”.
- Click <Next>.
- Select “Install from a specific location (Advanced)”.
- Click <Next>.
- Select “Include this location in the search”.
- Select “Browse”
- Select the path “My Computer\C:\ASPIA\driver\UPD9X0”.
- Click <OK>.
- Click <Next>.

  ➪ The driver installation starts automatically.

- Click <Finish>.

Printer driver settings

1. In the Windows task bar, click <Start>-<Settings>-<Printers and Faxes>.
2. Click the driver name “Sony UP-970AD/990AD” with the right mouse button and select the <Properties> menu.
3. Select <Advanced>.
4. Click <Printing Defaults>-<Density Adjust> and set the following values:
   - Gamma = “Tone1”
   - Advanced = “0”
   - Dark = 0
   - Light = “- 15” (minus 15)
   - Sharpness = “4”
5. Click <Apply> and <OK>.
6. In the window “Sony UP-970AD/990AD Properties”, click “General” and “Print Test Page”.

   ➪ Wait until a Windows test page is printed out.
7. In the Windows task bar, click <Start>-<Shut Down...>-<Restart> and confirm with <OK> to restart the system.

   ➪ After the restart, you are logged onto the system as “meduser”.

Printer setup in SynGo application software

Set the film size under “Filming”

1. On the right-hand monitor, select the FTC (filming” tab).

   ➪ The “Filming” tab is active on the right-hand monitor.
2. Select the “Camera” menu tab card on the “Filming” tab.
3. In the “Camera” list field, select and click “Sony UP-970AD/990AD”.

   ➪ The “Sony UP-970AD/990AD” list field must be highlighted.
4. Open the patient browser and send an image to the FTC.

5. In the “Default Film size” list field, select and click “8x10”.
   ➪ The “8x10” list field must be highlighted.

Set the default printer for “Structured reporting”

1. On the “Examination” tab, click <Options>-<Configuration>.
   ➪ The “Configuration” panel is displayed.
2. Double click the “Structured reporting” icon ("Strukturierte Befundung").
3. In the “Default Printer” list field, select “SonyUP-970AD/990AD” - even if “SonyUP-970AD/990AD” is already displayed.
   ➪ The “SonyUP-970AD/990AD” list field must be highlighted.
4. In the “Default paper size” list field, select and click “8x10”.
   ➪ The “8x10” list field must be highlighted.
5. Click <Apply> and <OK>.

Configure “Filming Layout”

1. Double click the <Filming Layout> icon.

NOTE	**If a message box appears, confirm with OK and double-click the <Filming Layout> icon again.**

2. On the “Filming” tab, enter the following parameters:
   - New film job by patient = ☑
   - New film sheet by (study or series) = ☐
   - New row of images by (patient, study or series) = ☐
   - Number of Copies = “1”
   - Exposure every X document = “1”
   - Film size = “8x10” --> click in the “8x10” window.
     ➪ The “8x10” list field must be highlighted.

NOTE	**If the film size is not displayed, restart the system via <Options>-<End Software Session>-<Shutdown> and repeat the section “Printer setup in syngo application software”.**

   - Segment lines = “Yes”
   - Page number on print out = ☑
3. Click “Apply”.
4. On the “Series” tab, enter the following parameters:
   - Layout divisions = “1x1”
   - Orientation = “Portrait” (“Hochformat”)
   - Image order = “Horizontal”
   - Aspect Ratio = “Keep visible part”
   - Copy Series = ☐
5. Click <Apply>.
6. Shut down the system via <Options>-<End Software Session>-<Shutdown>.

32 Changes to previous version

n.a., initial version